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(FILE 'USPAT' ENTERED AT 12:49:59 ON 17 OCT 96).

ACT A437975B/L

L1 (82) SEA FILE=USPAT PLU=ON SYNCHRONOUS? (2A) DRAM
L2 (33) SEA FILE=USPAT PLU=ON L1 (P) (CONTROL OR CONTROLLER)
L3 (0) SEA FILE=USPAT PLU=ON SCHEDUL? (P) L1
L4 (10) SEA FILE=USPAT PLU=ON SCHEDUL? (3A) (MEMORY (3A) REQUEST)
L5 (816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT
L6 (0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT
L7 (2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2
L8 (195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?
L9 (452) SEA FILE=USPAT PLU=ON (REORDER? OR RE (W) ORDER?) (3A) (DATA
OR
L10 (0) SEA FILE=USPAT PLU=ON L2 (P) L4
L11 (0) SEA FILE=USPAT PLU=ON L2 (P) L5
L12 (0) SEA FILE=USPAT PLU=ON L2 AND L8
L13 (0) SEA FILE=USPAT PLU=ON L2 AND L9
L14 (0) SEA FILE=USPAT PLU=ON L2 (2P) (SORT OR SORTING)
L15 (0) SEA FILE=USPAT PLU=ON L2 AND SCHEDUL?
L16 (16078) SEA FILE=USPAT PLU=ON TAG OR TAGGED OR TAGGING
L17 (140) SEA FILE=USPAT PLU=ON L16 (P) (MEMORY (2W) REQUEST?)
L18 (0) SEA FILE=USPAT PLU=ON L2 AND L17
L19 (32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

L20 33 S L2
L21 32 S L19
L22 10 S L4
L23 810 S SYNCHRONOUS? (2A) MEMORY
L24 0 S L8 AND L23
L25 37 S STAY (3A) PAGE
L26 0 S L23 AND L25
L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R
EQU
L28 2141 S OVERLAP? (3A) OPERATION
L29 1 S L1 AND L28
L30 0 S L7]
L31 0 S L20 AND L27
L32 3 S COMPLET? (3A) REQUEST? (3A) OUT (3A) ORDER
L33 86 S (SORT OR SORTING) (P) REQUEST (P) ADDRESS?
L34 25 S L33 AND SCHEDUL?
L35 19 S L34 AND MEMORY
L36 0 S L1 AND L5
L37 2007 S MAXIM? (3A) THROUGHPUT
L38 0 S L1 AND L37
L39 13 S MAXIM? (3A) DATA (3A) SLOT

L40 0 S L39 AND L1
L41 130 S ARBITRAT? (3A) (MEMORY (2A) REQUEST?)
L42 0 S L1 AND L41
L43 63 S CONFLICT? (3A) MEMORY (2A) REQUEST
L44 0 S L1 AND L43
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L1 (82) SEA FILE=USPAT PLU=ON SYNCHRONOUS? (2A) DRAM
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L4 (10) SEA FILE=USPAT PLU=ON SCHEDUL? (3A) (MEMORY (3A) REQUEST)
L5 (816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT
L6 (0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT
L7 (2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2
L8 (195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?
L9 (452) SEA FILE=USPAT PLU=ON (REORDER? OR RE(W) ORDER?) (3A) (DATA
OR
L10 (0) SEA FILE=USPAT PLU=ON L2 (P) L4
L11 (0) SEA FILE=USPAT PLU=ON L2 (P) L5
L12 (0) SEA FILE=USPAT PLU=ON L2 AND L8
L13 (0) SEA FILE=USPAT PLU=ON L2 AND L9
L14 (0) SEA FILE=USPAT PLU=ON L2 (2P) (SORT OR SORTING)
L15 (0) SEA FILE=USPAT PLU=ON L2 AND SCHEDUL?
L16 (16078) SEA FILE=USPAT PLU=ON TAG OR TAGGED OR TAGGING
L17 (140) SEA FILE=USPAT PLU=ON L16 (P) (MEMORY (2W) REQUEST?)
L18 (0) SEA FILE=USPAT PLU=ON L2 AND L17
L19 (32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

L20 33 S L2
L21 32 S L19
L22 10 S L4
L23 810 S SYNCHRONOUS? (2A) MEMORY
L24 0 S L8 AND L23
L25 37 S STAY (3A) PAGE
L26 0 S L23 AND L25
L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R
EQU
L28 2141 S OVERLAP? (3A) OPERATION
L29 1 S L1 AND L28
L30 0 S L7]
L31 0 S L20 AND L27
L32 3 S COMPLET? (3A) REQUEST? (3A) OUT (3A) ORDER
L33 86 S (SORT OR SORTING) (P) REQUEST (P) ADDRESS?
L34 25 S L33 AND SCHEDUL?
L35 19 S L34 AND MEMORY

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22. 5,521,879, May 28, 1996, Synchronous dynamic random access memory;
Atsushi Takasugi, 365/233, 189.02, 189.03, 189.05, 230.02, 230.08 [IMAGE
AVAILABLE]

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(FILE 'USPAT' ENTERED 'AT 10:07:51 ON 17 OCT 96)

L1 82 S SYNCHRONOUS? (2A) DRAM
L2 33 S L1 (P) (CONTROL OR CONTROLLER)
L3 0 S SCHEDUL? (P) L1
L4 10 S SCHEDUL? (3A) (MEMORY (3A) REQUEST)
L5 816 S MAXIMIZ? (3A) THROUGHPUT
L6 0 S MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT
L7 2 S PRIORIT? (P) L2
L8 195 S BANK (3A) SORT?
L9 452 S (REORDER? OR RE (W) ORDER?) (3A) (DATA OR REQUEST)
L10 0 S L2 (P) L4
L11 0 S L2 (P) L5
L12 0 S L2 AND L8
L13 0 S L2 AND L9
L14 0 S L2 (2P) (SORT OR SORTING)
L15 0 S L2 AND SCHEDUL?
L16 16078 S TAG OR TAGGED OR TAGGING
L17 140 S L16 (P) (MEMORY (2W) REQUEST?)
L18 0 S L2 AND L17
L19 32 S L17 (P) ORDER?
SAVE A437975B/L ALL

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(FILE 'USPAT' ENTERED AT 12:49:59 ON 17 OCT 96)

ACT A437975B/L

L1 (82) SEA FILE=USPAT PLU=ON SYNCHRONOUS? (2A) DRAM
L2 (33) SEA FILE=USPAT PLU=ON L1 (P) (CONTROL OR CONTROLLER)
L3 (0) SEA FILE=USPAT PLU=ON SCHEDUL? (P) L1
L4 (10) SEA FILE=USPAT PLU=ON SCHEDUL? (3A) (MEMORY (3A) REQUEST)
L5 (816) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) THROUGHPUT
L6 (0) SEA FILE=USPAT PLU=ON MAXIMIZ? (3A) USE (2A) DATA (3A) SLOT
L7 (2) SEA FILE=USPAT PLU=ON PRIORIT? (P) L2
L8 (195) SEA FILE=USPAT PLU=ON BANK (3A) SORT?
L9 (452) SEA FILE=USPAT PLU=ON (REORDER? OR RE(W) ORDER?) (3A) (DATA
OR
L10 (0) SEA FILE=USPAT PLU=ON L2 (P) L4
L11 (0) SEA FILE=USPAT PLU=ON L2 (P) L5
L12 (0) SEA FILE=USPAT PLU=ON L2 AND L8
L13 (0) SEA FILE=USPAT PLU=ON L2 AND L9
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L19 (32) SEA FILE=USPAT PLU=ON L17 (P) ORDER?

L20 33 S L2
L21 32 S L19
L22 10 S L4
L23 810 S SYNCHRONOUS? (2A) MEMORY
L24 0 S L8 AND L23
L25 37 S STAY (3A) PAGE
L26 0 S L23 AND L25
L27 17 S (REORDER? OR (RE (2W) ORDER?)) (3A) (MEMORY (2A) (ACCESS? OR R
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L28 2141 S OVERLAP? (3A) OPERATION
L29 1 S L1 AND L28
L30 0 S L7]

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